

CERTIFICATE OF MAILING PURSUANT TO 37 C.F.R. §1.8

I, Sharon Nance, hereby certify that this correspondence, pursuant to 37 C.F.R. §1.8, is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on:

Date:

4/16/04

By

Sharon Nance

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s): Yuriy V. Mikhaylik

Docket No.:

57519.00116
(MT0081.1)

Application No.: 10/753,031

Group Art Unit:

Not Yet Assigned

Filing Date: January 6, 2004

Examiner:

Not Yet Assigned

TITLE:

ELECTROLYTES FOR LITHIUM SULFUR CELLS

TRANSMITTAL PURSUANT TO 37 C.F.R. §1.97-1.98

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Commissioner:

Submitted herewith pursuant to 37 C.F.R. §1.97(b) are enclosed (1) Information Disclosure Statement (2) Information Disclosure Citation PTO Form 1449, and (3) cited references. No certification under 37 C.F.R. §1.97(e) or fee under 37 C.F.R. §1.17(p) is required.

This statement does NOT authorize charge of the issue fee. The Commissioner is hereby authorized to charge any fee specifically authorized hereafter, or any deficiency in the fee(s) filed, or asserted to be filed, or which should have been filed herewith or concerning any paper filed hereafter, and which may be required under 37 C.F.R. §§1.16-1.18 (deficiency only) now or hereafter relative to this Application and the resulting Official document under 37 C.F.R. §1.20, or credit any overpayment to Account No. 19-3878 for which purpose a duplicate copy of this sheet is attached.

Respectfully submitted,

Date: April 16, 2004

Date

By

David E. Rogers

David E. Rogers
Reg. No. 38,287

SQUIRE, SANDERS & DEMPSEY L.L.P.

Two Renaissance Square
40 North Central Avenue, Suite 2700
Phoenix, Arizona 85004-4498
(602) 528-4122



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE
INFORMATION DISCLOSURE STATEMENT PURSUANT TO
37 C.F.R. §§1.97-1.98

Applicant(s): Yuriy V. Mikhaylik Docket No.: 57519.00116
(MT0081.1)
Application No.: 10/753,031 Group Art Unit: Not Yet Assigned
Filing Date: January 6, 2004 Examiner: Not Yet Assigned
TITLE: ELECTROLYTES FOR LITHIUM SULFUR CELLS

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Commissioner:

In accordance with the duty of disclosure under 37 C.F.R. §1.56 and pursuant to 37 C.F.R. §§1.97-1.98, Applicant hereby notifies the U.S. Patent and Trademark Office of the documents listed on the attached Form PTO-1449. One copy of each cited document is submitted herewith.

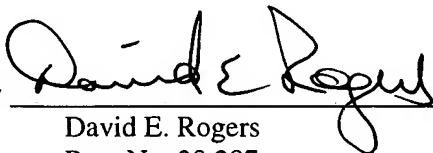
The submission of the listed documents is not intended as an admission that any such document constitutes prior art against the claims of the present application. Applicant reserves the right to dispute any of the listed documents as prior art during examination. Further, Applicant does not waive any right to take any action that would be appropriate to antedate or otherwise remove any listed document as a competent reference against the claims of the present application. Furthermore, the submission of this Information Disclosure Statement is not to be construed as a representation that a search has been made or that no other material information may exist.

Applicant respectfully submits that all pending claims are patentable over the foregoing references, alone or in combination. The Examiner is requested to initial the enclosed Form PTO-1449 and return a copy thereof to the undersigned.

The present Information Disclosure Statement is being filed before the receipt of the first office action pursuant to 37 C.F.R. §1.97(b)(3); therefore, no certification under 37 C.F.R. §1.97(e) or fee under 37 C.F.R. §1.17(p) is required.

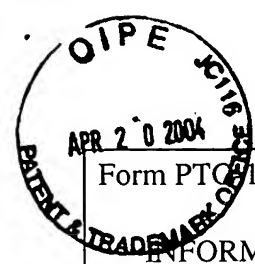
Respectfully submitted,

Date: April 16, 2004

By 
David E. Rogers
Reg. No. 38,287

Enclosures: PTO-1449
Transmittal
Statement

279872



Form PTO/SB/08 (2-92)

Docket Number:

57519.00116 (MT-0081.1)

Application Number: 10/753,031

INFORMATION DISCLOSURE CITATION
IN AN APPLICATION

(Use several sheets if necessary)

Applicant : Yuriy V. Mikhaylik

Filing Date: January 6, 2004

Group Art Unit: Not Yet Assigned

U.S. PATENT DOCUMENTS

Examiner Initials	Ref. No.	Date	Document No.	Name	Class	Subclass	Filing Date If Appropriate
	1.	4/81	4,264,689	Moses			
	2.	11/1983	4,410,609	Peled et al.			
	3.	3/1989	4,816,358	Holleck et al.			
	4.	8/1989	4,857,423	Abraham et al.			
	5.	6/1991	5,021,308	Armand et al.			
	6.	10/1994	5,352,967	Nutz et al.			
	7.	5/1996	5,514,493	Waddell et al.			
	8.	6/1996	5,529,860	Skotheim et al.			
	9.	2/1997	5,601,947	Skotheim et al.			
	10.	11/1997	5,686,201	Chu			
	11.	11/1997	5,690,702	Skotheim et al.			
	12.	3/1999	5,882,812	Visco et al.			
	13.	5/1999	5,900,718	Tsenter			
	14.	7/1999	5,919,587	Mukherjee et al.			
	15.	1/2000	6,017,651	Nimon et al.			
	16.	2/2000	6,025,094	Visco et al.			
	17.	2/2000	6,030,720	Chu et al.			
	18.	5/2000	6,060,184	Gan et al.			
	19.	9/2000	6,117,590	Skotheim et al.			
	20.	10/2000	6,136,477	Gan et al.			
	21.	11/2000	6,153,337	Carlson et al.			
	22.	2/2001	6,194,099	Geronov et al.			
	23.	3/2001	6,201,100	Gorkovenko et al.			
	24.	4/2001	6,210,831	Gorkovenko et al.			
	25.	4/2001	6,210,839	Gan et al.			
	26.	5/2001	6,225,002	Nimon et al.			

EXAMINER:

DATE CONSIDERED:

EXAMINER: Initial if citation considered, whether or not the citation conforms with MPEP 609. Draw a line through the citation if not in conformance and not considered. Include a copy of this form with next communication to applicant.

Form PTO-1449 INFORMATION DISCLOSURE CITATION IN AN APPLICATION (Use several sheets if necessary)	Docket Number: 57519.00116 (MT-0081.1)	Application Number: 10/753,031
	Applicant : Yuriy V. Mikhaylik	
	Filing Date: January 6, 2004	Group Art Unit: Not Yet Assigned

U.S. PATENT DOCUMENTS

Examiner Initials	Ref. No.	Date	Document No.	Name	Class	Subclass	Filing Date If Appropriate
	27.	6/2002	6,406,815	Sandberg et al.			
	28.	8/2002	6,436,583	Mikhaylik			

FOREIGN PATENT DOCUMENTS

Examiner Initials	Ref. No.	Date	Document No.	Country	Class	Subclass	Translation YES NO
	29.	8/02	WO 02/067344	PCT			

OTHER DOCUMENTS

(including author, title, Date, Pertinent Pages, Etc.)

Examiner Initials	Ref. No.	Title
	30.	Peled et al., "The Electrochemical Behavior of Alkali and Alkaline Earth Metals in Nonaqueous Battery Systems", <i>J. Electrochem. Soc.</i> , vol. 126, pp.2047-2051 (1979).
	31.	Rao et al., "Effect of Sulfur Impurities on Li/TiS ₂ Cells", <i>J. Electrochem. Soc.</i> , vol. 128, pp. 942-945 (1981).
	32.	Peled et al., "Lithium-Sulfur Battery: Evaluation of Dioxolane-Based Electrolytes", <i>J. Electrochem. Soc.</i> , vol. 136, pp. 1621-1625 (1989).
	33.	Narayanan et al., "Analysis of Redox Additive-Based Overcharge Protection for Rechargeable Lithium Batteries", <i>J. Electrochem. Soc.</i> , vol. 138, pp. 2224- 2229, (1991).
	34.	Golovin et al., "Applications of Metallocenes in Rechargeable Lithium Batteries for Overcharge Protection", <i>J. Electrochem. Soc.</i> , vol. 139, pp. 5-10, (1992).
	35.	Alamgir et al., "Room Temperature Polymer Electrolytes", <i>Industrial Chemistry Library, Vol. 5, Lithium Batteries: New Materials, Developments and Perspectives</i> , Chapter 3, pp. 93-136, Elsevier, Amsterdam, 1994.
	36.	Dominey, "Current State of the Art on Lithium Battery Electrolytes", <i>Industrial Chemistry Library, Vol. 5, Lithium Batteries: New Materials, Developments and Perspectives</i> , Chapter 4, pp. 137-165, Elsevier, Amsterdam, 1994.
*	37.	<i>Handbook of Batteries</i> , Linden, 2 nd edition, chapter 3, pp. 18-19, McGraw-Hill, New York (1995).
*	38.	<i>Handbook of Batteries</i> , Linden, 2 nd edition, chapter 14, pp. 75-76, McGraw-Hill, New York (1995).

EXAMINER:

DATE CONSIDERED:

EXAMINER: Initial if citation considered, whether or not the citation conforms with MPEP 609. Draw a line through the citation if not in conformance and not considered. Include a copy of this form with next communication to applicant.

* NOT FOUND

Form PTO-1449 INFORMATION DISCLOSURE CITATION IN AN APPLICATION <i>(Use several sheets if necessary)</i>		Docket Number: 57519.00116 (MT-0081.1)	Application Number: 10/753,031
		Applicant : Yuriy V. Mikhaylik	
		Filing Date: January 6, 2004	Group Art Unit: Not Yet Assigned
OTHER DOCUMENTS <i>(including author, title, Date, Pertinent Pages, Etc.)</i>			
Examiner Initials	Ref. No.	Title	
	39. •	<i>Handbook of Batteries</i> , Linden, 2 nd edition, chapter 36, p. 2, McGraw-Hill, New York (1995).	
	40. •	Richardson et al., "Overcharge Protection for Rechargeable Lithium Polymer Electrolyte Batteries", <i>J. Electrochem. Soc.</i> , vol. 143, pp. 3992-2996, (1996).	
	41. •	Chu et al., "High Performance S-type Cathode", Proceedings of the 12 th Annual Battery Conference, applications and Advances, pp. 133-134, (1997).	
	42. •	Aurbach in <i>Nonaqueous Electrochemistry</i> , Chapter 6, pp. 289-366, Marcel Dekker, New York, 1999	
	43. •	Cheon et al., "Rechargeable Lithium Sulfur Battery: II. Rate Capability and Cycle Characteristics", <i>J. Electrochem. Soc.</i> , vol. 150, pp. A800-A805, (2003).	
EXAMINER:		DATE CONSIDERED:	
EXAMINER: Initial if citation considered, whether or not the citation conforms with MPEP 609. Draw a line through the citation if not in conformance and not considered. Include a copy of this form with next communication to applicant.			